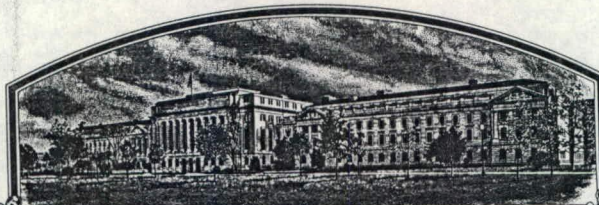


No.

8300085



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Cebeco-Handelsraad

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Bellona'

In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 26th day of July in
the year of our Lord one thousand nine
hundred and eighty-five.

Attest:

Kenneth H. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

John R. Bell
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S) Cebeco-Handelsraad		2. TEMPORARY DESIGNATION Cebeco 7931	3. VARIETY NAME BELLONA
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) Blaak 31 P.O. Box 182 3000 AD Rotterdam, The Netherlands		5. PHONE (Include area code) 10-544911	FOR OFFICIAL USE ONLY PVPO NUMBER 8300085
6. GENUS AND SPECIES NAME Hordeum vulgare L	7. FAMILY NAME (Botanical) Gramineae		FILING DATE 3/28/83 TIME 9:30 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. KIND NAME spring barley	9. DATE OF DETERMINATION 1977		FEES RECEIVED AMOUNT FOR FILING \$ 1,000 DATE 3/28/83 AMOUNT FOR CERTIFICATE \$ 500.00 DATE 7/1/85
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) agricultural cooperative			12. DATE OF INCORPORATION July 1st, 1899
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Rotterdam, The Netherlands			
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			

*see letter d'd 10/3/84
+ authorization
d'd 5/11/84*
INTERNATIONAL SEEDS INC.
P.O. BOX 168, 820 FIRST STREET
HALSEY, OREGON 97348

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)	c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement	d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of the Variety

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.)
☒ Yes (If "Yes," answer items 16 and 17 below) ☒ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ Foundation ☒ Registered ☒ Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES?
- The Netherlands 04.01.1980 Denmark 15.01.1981 ☒ Yes (If "Yes," give names of countries and dates)
- France 02.06.1982 ☐ No
- West Germany 26.11.1980

19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES?
The Netherlands 08.06.1982 ☒ Yes (If "Yes," give names of countries and dates)
☐ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw b.a.

CEBECO-HANDELSRAAD

DATE

ROTTERDAM, 23 FEB. 1983

SIGNATURE OF APPLICANT

DATE

NOTE: THERE HAS BEEN A CHANGE IN THE FEES.

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$1,000 fee (\$500 filing fee and \$500 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain, and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. [See section 180.175 of the Regulations and Rules of Practice (as amended November 8, 1982).] Retrain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (*See section 180.16 of the Regulations and Rules of Practice.*)
- 16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



**CEBECO-HANDELSRAAD**EXHIBIT AOrigin and breeding history of the variety

Bellona was selected from the cross

Aramir x (Aramir x Bomi)

This cross was made in 1971. After multiplying the population out of this cross during 4 years single plants were selected in the field. This single plant selection was followed by earrow and earrow progeny selection combined with replicated yield trials.

This selection resulted in 19 identical earrow progenies which were used as a basis of the new variety BELLONA.

Maintenance: The variety is maintained by means of line selection.

Multiplication scheme:

1. breeders seed - grown at the plant breeding station
2. prebasic seed - grown and field inspected at the plant breeding station and/or at multiplication farms (seed growers)
3. basic seed - grown and field inspected at multiplication farms (seed growers)
4. certified seed (C₁) - grown and field inspected at multiplication farms (seed growers).

Results of official D.U.S. tests in The Netherlands (RIVRO) and France (INRA/GEVES) showed that BELLONA is a uniform and stable variety.

No variants have been observed during the seed increase of BELLONA to date.

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Exhibit B

PLANT VARIETY PROTECTION CERTIFICATE NO. 8300085, "BELLONA" BARLEY

Novelty Statement - Revised 20 April 1985

Novelty of Bellona is based on the unique combination of characteristics, as summarized in Exhibit D. (additional description of the variety) and the official description drawn up by the Dutch Board for Plant Breeder's Rights. Bellona is a two rowed spring barley of mid-season maturity and short stature.

Bellona most closely resembles the varieties Menuet and Pirolina.

Bellona differs from Menuet:

- by having no spicules on the inner lateral nerves of lemma while Menuet has.
- by having a long haired rachilla, while Menuet has a short haired rachilla.

Bellona differs from Pirolina:

- by having a long haired rachilla while Pirolina has a short haired rachilla.
- by having no spicules on the inner lateral nerves of lemma while Pirolina shows a weak spiculation.
- by having no spicules on the outer lateral nerves of lemma and the lemma margin while Pirolina has.

As evidence of the novelty of the variety Bellona we enclose a translation of the official report of the D.U.S. tests of this variety, carried out by the Dutch authorities (RIVRO), as well as a translation of the official Certificate of Registration of Bellona.

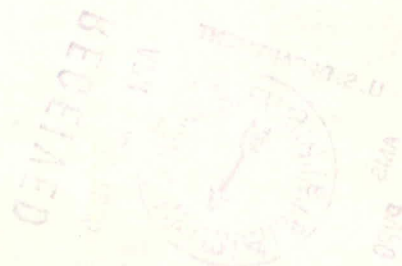
830008



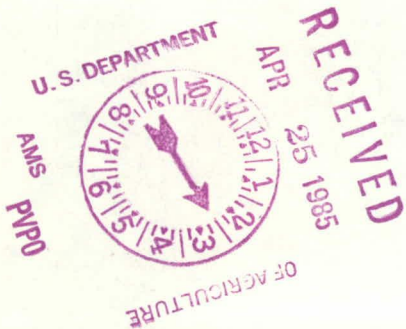
EXHIBIT B. PVP APPLICATION NO. 830005, "BELLONA" BARLEY

APPENDIX A

	VARIETY		
	<u>Bellona</u>	<u>Menuet</u>	<u>Pirolina</u>
1. Spicules present on innerlateral nerves of lemma	absent	present	present, weak
2. Spicules on outer lateral nerves of lemma margin	absent		present
3. Size of rachilla	long	short	short
4. Rachilla hairs	present	present	present



2807083





8300085

RAAD VOOR HET KWEKERSRECHT

BEWIJS VAN INSCHRIJVING

voor een ras van het gewas Zomergerst

De Raad voor het Kwekersrecht verklaart,

dat op aanvraag nummer GRS 276

ingediend op 4 januari 1980 te 24.00 uur,

het hierna beschreven ras op 8 juni 1982

onder volgnummer 5820

en onder de benaming Bellona

in het Nederlands Rassenregister is ingeschreven met aantekening van
verlening van kwekersrecht

ten name van Cebeco-Handelsraad
Postbus 182
3000 AD Rotterdam

Wageningen, 1 juli 1982

De Raad voor het Kwekersrecht,

sekretaris.

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Rapport betreffende het ras

Bellona, GRS 276

april 1982

Aanvraag volgens art. 35 Z.P.W.

Aanvrager : Cebeco-Handelsraad, Rotterdam.

Datum van aanvraag : 4 januari 1980.

Ontstaan : volgens het beschrijvingsblad is het ras ontstaan uit
de kruising : Aramir x Aramir x Bomi.

Plaatsen en jaren van onderzoek : Wageningen 1980 en 1981

Dronten 1980 en 1981.

In de combinatie van kenmerken in de rasbeschrijving toont het ras geen overeenkomst met andere ons bekende rassen.

Er zijn tijdens het onderzoek geen tekortkomingen ten aanzien van de homogeniteit en de bestendigheid geconstateerd.

Het is niet gebleken dat het ras voor de datum van aanvraag in het verkeer is gebracht.

Conclusies:

1. Bellona onderscheidt zich duidelijk van alle andere ons bekende rassen.
2. Het ras is voldoende homogeen.
3. Het ras is bestendig.
4. Op het tijdstip van aanvraag kon het ras als nieuw worden aangemerkt.

De deskundige :

— 17 —

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BESCHRIJVING

Verzoekende instantie : Raad voor het Kwekersrecht,
Wageningen
Rapporterende instantie : RIVRO, Wageningen

Aanvraag no. : GRS 276

Gewas : zomergerst
Voorl. aanduiding : Cebeco 7931
Benaming : Bellona

Type : tweerijige zomergerst.

Halm : kort.

Blad : aan de zich strekkende halm smal, tamelijk zwak hangend, tamelijk donkergroen met roodkleuring in bladschede en oortjes.

Aar : tamelijk lang, tamelijk smal met aan de top middelmatig sterk gekleurde kafnaalden; aanvankelijk rechtopstaand en tijdens de rijping hangend.

Aarspil met tamelijk lange leden.

Korrel : met lang behaarde rhachilla, onbehaarde randen langs de groeve, ongetande binnenste zijnerven en met gekleurde nerven tijdens de rijping.

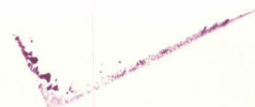
Het ras komt tamelijk laat in aar.

Verschil met andere rassen :

De beschrijving kenmerkt het ras.

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TRANSLATION

The Board for the Plant Breeder's Rights

CERTIFICATE OF REGISTRATION

for a variety of the crop spring barley

The Board for the Plant Breeder's Rights declares,

that with registration number GRS 276

submitted on 4th of January 1980 at 24.00 hrs

the variety described hereafter on 8th of June 1982

under serial number 5820

and with the denomination Bellona

has been entered into the Netherlands Register of Plant Varieties

with annotation of grant of Plant Breeder's Rights

in the name of Cebeco-Handelsraad
 P.O. Box 182
 3000 AD Rotterdam

Wageningen, 1st of July 1982

The Board for the Plant Breeder's Rights

Secretary

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GOVERNMENT INSTITUTE FOR RESEARCH ON VARIETIES OF CULTIVATED PLANTS

Report regarding the variety

Bellona, GRS 276

April 1982

Application in accordance with art. 35. Z.P.W.

Applicant: Cebeco-Handelsraad, Rotterdam
Application date: 4th January 1980
Origin: according to the technical questionnaire
the variety was selected from the cross:
Aramir x Aramir x Bomi.

Places and years of testing: Wageningen 1980 and 1981
Dronten 1980 and 1981.

In the combination of characters in the official description the variety doesn't show any similarity to other varieties known to us.

During the testing years no shortcomings with respect to the uniformity and the stability were observed.

It didn't appear that the variety has been commercialized before the date of application.

Conclusions:

1. Bellona is clearly distinct from all other varieties known to us.
2. The variety is sufficiently uniform
3. The variety is stable.
4. At the moment of application the variety could be considered as being new.

The Expert:

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DESCRIPTION

8300085

Requesting Authority: The Board for the
Plant Breeder's Rights, Wageningen

Application Nr.: GRS 276

Reporting Authority: RIVRO, Wageningen

Crop: spring barley
Breeders' reference: Cebeco 7931
Denomination: Bellona

Species: two-rowed spring barley
Stem: short
Leaf: during stem elongation narrow, rather weakly hanging,
rather dark green with anthocyanin coloration in leaf
sheath and auricles.
Ear: rather long, rather narrow with on top moderately strong
anthocyanin coloration of the awns; initially erect and semi-
drooping during ripening.
Rachis with rather long segments.
Grain: rachilla hair type: long
hairiness of ventral furrow: absent
spiculation of inner lateral nerves of lemma: absent
anthocyanin coloration of nerves during ripening: present.
Heading date: rather late.

Difference from other varieties:

This description characterizes the variety.

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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Barley)

OBJECTIVE DESCRIPTION OF VARIETY
BARLEY (*HORDEUM VULGARE*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Cebeco-Handelsraad	FOR OFFICIAL USE ONLY PVPO NUMBER 8300085
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Blaak 31, P.O. Box 182 3000 AD Rotterdam, The Netherlands	VARIETY NAME OR TEMPORARY DESIGNATION BELLONA

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (i.e. 089 or 09) when number is either 99 or less or 9 or less.

1. GROWTH HABIT:

1 1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER 2-4 Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE
3 = ERECT 4 = semi-erect

2. MATURITY (50% Flowering) (heading) (see appendix I)

2 1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)

No. of days Earlier than } 1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON

4 No. of days Later than 1 } 5 = PIROLINE 6 = PRIMUS 7 = UNITAN

3. PLANT HEIGHT (From soil level to top of head):

2 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest)

1 1 Cm. Shorter than 1 } 1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON
5 = PIROLINE 6 = PRIMUS 7 = UNITAN

Cm. Taller than

4. STEM:

2 Exertion (Flag to spike at maturity): 1 = 0 - 3 cm. 2 = 3 - 10 cm. 2 Anthocyanin: 1 = ABSENT 2 = PRESENT
3 = 10 - 15 cm.

(4-5, depending on growing circumstances)

+ 0 4 NO. OF NODES (Originating from node above ground)

1 Collar Shape: 1 = CLOSED 2 = V-SHAPED 3 = OPEN 1 Shape of Neck: 1 = STRAIGHT 2 = SNAKY
4 = MODIFIED CLOSED OR OPEN 3 = OTHER (Specify) _____

5. LEAF:

1 Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT 3 Position of flag leaf (at boot stage): 1 = DROOPING
2 = UPRIGHT
3 = horizontal
3 Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 1 3 MM. WIDTH (First leaf below flag leaf) (see appendix I)
3 = WAXY

2 5 CM. LENGTH (First leaf below flag leaf) 2 Anthocyanin in leaf sheath: 1 = ABSENT 2 = PRESENT

6. HEAD:

1 Type: 1 = TWO-ROWED 2 = SIX-ROWED 1 Density: 1 = LAX 2 = ERECT (Not dense)
3 = ERECT (Dense)
2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 3 Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY
4 = OTHER (Specify) _____ 3 = WAXY
 Lateral Kernels Overlap: 1 = NONE 2 = AT TIP 3 Rachis (Hair on edge): 1 = LACKING 2 = FEW 3 = COVERED
3 = 1/4 - 1/2 OF HEAD

7. GLUME:

3 Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA 3 Hairs: 1 = NONE 2 = SHORT 3 = LONG
3 = MORE THAN 1/2 OF LEMMA
3 Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED
1 Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES
3 = MORE THAN EQUAL TO LENGTH OF GLUMES
3 Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

8. LEMMA:

- ☐ 5 Awn: 1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS, AWNLESS ON LATERAL ROWS
3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS 4 = SHORT (less than equal to length of spike)
5 = LONG (longer than spike) 6 = HOODED
- ☐ 3 Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH
- ☐ 1 Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS ☐ 1 Hair: 1 = ABSENT 2 = PRESENT
- ☐ 1 Shape of base: 1 = DEPRESSION 2 = SLIGHT CREASE
3 = TRANSVERSE CREASE ☐ 2 Rachilla Hairs: 1 = SHORT 2 = LONG

9. STIGMA:

- ☐ 2 Hairs: 1 = FEW 2 = MANY

10. SEED:

- ☐ 2 Type: 1 = NAKED 2 = COVERED ☐ 1 Hairs on Ventral Furrow: 1 = ABSENT 2 = PRESENT
- ☐ 3 Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.)
4 = MIDLONG TO LONG (9.0 - 10.5 mm.) 5 = LONG (10.0 mm.)
- ☐ 4 Wrinkling of hull: 1 = NAKED 2 = SLIGHTLY WRINKLED 3 = SEMIWRINKLED 4 = WRINKLED
- ☐ 1 Aleurone Color: 1 = COLORLESS (White or Yellow) 2 = BLUE
- ☐ 0 2 PERCENT ABORTIVE + ☐ 4 ☐ 9 GMS. PER 1000 SEEDS

11. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

- ☐ 0 SEPTORIA ☐ 2 NET BLOTCH ☐ 2 SPOT BLOTCH ☐ 1 POWDERY MILDEW
- ☐ 1 LOOSE SMUT ☐ 0 BACTERIAL BLIGHT ☐ 1 COVERED SMUT ☐ 0 FALSE LOOSE SMUT
- ☐ 0 STEM RUST ☐ 1 LEAF RUST ☐ 1 SCAB ☐ 1 SCALD
- ☐ 0 AY ☐ 0 BSMV ☐ 1 BYDV ☐ OTHER (Specify)

12. INSECT: (0 = Not tested, 1 = Susceptible, 2 = Resistant)

- ☐ 0 GREEN BUG ☐ 0 ENGLISH GRAIN APHID ☐ 0 CHINCH BUG ☐ 0 ARMYWORM
- ☐ 0 GRASS HOPPERS ☐ 0 CERIAL LEAF BETTLE ☐ 0 OTHER (Specify)
- HESSIAN FLY RACES } ☐ 0 GP ☐ 0 A ☐ 0 B ☐ 0 C
☐ 0 D ☐ 0 E ☐ 0 F ☐ 0 G

13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

- ☐ DDT ☐ OTHER (Specify)

14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Menuet	Seed size	Pirouette
Leaf size	Georgie	Coleoptile elongation	Pirolina
Leaf color	Pirolina	Seedling pigmentation	Georgie
Leaf carriage	Trumpf		

REFERENCES: The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61 - 84.
3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

FORM LPGS-470-5 (8-80) (REVERSE)

All data were observed in replicated trials in Holland!

APPENDIX 1

EXPLANATIONS AND METHODS/EXPLICATIONS ET METHODES/
ERLÄUTERUNGEN UND METHODEN

Ad/Add./Zu 1

Plant: growth habit

Plante: port au tallage

Pflanze: Wuchsform

erect/dressé/aufrecht

semi-erect/demi-dressé/halbaufrecht

intermediate/demi-dressé à demi-étalé/mittel

semi-prostrate/demi-étalé/halbliegend

prostrate/étalé/liegend

The growth habit should be assessed visually from the attitude of the leaves and tillers. The angle formed by the outer leaves and the tillers with an imaginary middle axis should be used.

Le port doit être déterminé visuellement d'après le port des feuilles et des talles. On utilisera l'angle formé par les feuilles externes et les talles avec un axe central imaginaire.

Die Wuchsform sollte auf Grund der Haltung der Blätter und Triebe visuell erfasst werden. Der von den äusseren Blättern und Trieben mit einer imaginären Mittelachse gebildete Winkel sollte verwendet werden.

Ad/Add./Zu 3

Flag leaf: attitude

Dernière feuille: port

Oberstes Blatt: Haltung

1. all leaves are rectilinear/toutes les feuilles sont dressées/alle Blätter sind gerade
3. about 1/4 of the plants with recurved leaves/environ 1/4 des plantes ont des feuilles retombantes/etwa 1/4 der Pflanzen mit gebogenen Blättern
5. about 1/2 of the plants with recurved leaves/environ 1/2 des plantes ont des feuilles retombantes/etwa die Hälfte der Pflanzen mit gebogenen Blättern
7. about 3/4 of the plants with recurved leaves/environ 3/4 des plantes ont des feuilles retombantes/etwa drei Viertel der Pflanzen mit gebogenen Blättern
9. all leaves are recurved/toutes les feuilles sont retombantes/alle Blätter sind gebogen.

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APPENDIX 2

Ad/Add./Zu 11

Ear: attitude

Epi: port

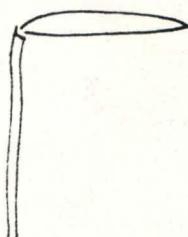
Ähre: Haltung



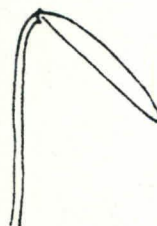
erect
droit
aufrecht



semi-erect
légèrement
incurvé
geneigt



horizontal
demi-incurvé
waagrecht



semi-drooping
incurvé
überhängend



drooping
très incurvé
stark überhängend

Ad/Add./Zu 14

Ear: shape

Epi: forme

Ähre: Form



tapering
pyramidal
pyramidenförmig



parallel
à bords parallèles
parallel



fusiform
fusiforme
spindelförmig

Ad/Add./Zu 16

Awn: length compared to ear

Barbe: longueur par rapport à l'épi

Granne: Länge im Verhältnis zur Ähre



shorter
plus courte
kürzer



equal
de même longueur
gleich lang



longer
plus longue
länger

2800083

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MAR 28 1963



BELLONAORIGIN Aramir x Aramir x BomiPLANT

- | | |
|--|-------------------------------|
| 1. Growth habit at tillering: | Intermediate - semi prostrate |
| 2. Basal leaf sheaths: | glabrous and weakly pigmented |
| 3. Leaf size: | rather long and rather narrow |
| 4. Leaf attitude (carriage): | intermediate |
| 5. Flag leaf attitude: | horizontal |
| 6. Anthocyanin coloration of the auricles: | medium to strong |
| 7. Colour of the leaves: | medium green |
| 8. Glaucosity (waxiness) of leaf sheaths: | strong |
| 9. Exertion (flag to spike): | medium (+ 3.5 cm) |
| 10. Plant height: | medium |

EAR

- | | |
|---|--------------------------------------|
| 11. Ear glaucosity: | medium to strong |
| 12. Number of rows: | two |
| 13. Ear length: | long (+ 10 cm) |
| 14. Ear shape: | parallel shaped (strap) |
| 15. Presence of awns: | present |
| 16. Awn length: | longer than length of ear (+ 4 cm) |
| 17. Anthocyanin coloration of the awn tips: | strong |
| 18. Ear density: | lax, D = 34.5 |
| 19. Awn-spiculation of the central nerve: | present |
| 20. Awn-spiculation of the margins: | total, spicules rather widely spaced |
| 21. Ear attitude at ripening: | recurved |

RACHIS

- | | |
|--|-------------------------------|
| 22. Size of first segment: | rather long and broad |
| 23. Curvature of first segment: | medium curved |
| 24. Humping of segment (mid-third of ear): | medium |
| 25. Shape of segments (mid-third of ear): | straight, and slightly flared |
| 26. Hairiness of segment margins: | medium |
| 27. Shoulder hairs: | medium to strong |
| 28. Hairs on concave surface: | absent |
| 29. Interglume hairs: | absent |

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STERILE SPIKELET

- | | |
|--------------------------------|----------------|
| 30. Angle of sterile spikelet: | divergent |
| 31. Length of lemma: | medium to long |
| 32. Shape of tip: | rounded |
| 33. Hairiness of lemma (base): | weak |
| 34. Spiculation of the lemma: | very weak |
| 35. Colour of the rachilla: | ochre |
| 36. Hairiness of the rachilla: | weak |

GRAIN

- | | |
|---|--|
| 37. Grain type: | type A |
| 38. Rachilla hair type: | long hairs |
| 39. Presence of husk: | present |
| 40. Anthocyanin coloration of the nerves: | strong to very strong |
| 41. Spiculation of inner lateral nerve: | absent |
| 42. Spiculation of outer lateral nerve: | absent |
| 43. Hairiness of ventral furrow: | absent |
| 44. Lodicules: | long collar type; shape type IV (clasping) |
| 45. Thousand kernel weight: | 49 grams (high) |
| 46. Shape of tip of the palea: | long |

$$D = \frac{\text{total spikelets}}{\text{rachis length in mm}} \times 100$$

2800088

RECEIVED
MAY 20 1983



**CEBECO-HANDELSRAAD**

BELLONA (spring barley)

Authorization:

The undersigned: CEBECO-HANDELSRAAD
P.O. Box 182, Blaak 31
3000 AD ROTTERDAM
The Netherlands

declare that they are the owners of the new spring barley variety BELLONA.

They also declare that they authorize:

International Seeds Inc.
P.O. Box 168, 820 First Street
HALSEY, Oregon 97348
U.S.A.

to submit for and on behalf of them an application for Plant Variety Protection Certificate in the U.S.A. for the spring barley variety BELLONA,

to prepare, sign and submit the documents necessary for that purpose and

to make all attendances upon the Plant Variety Protection Board relating to the application for Plant Variety Protection Certificate for their variety BELLONA.

Rotterdam, 11th May 1984

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw b.a.

CEBECO-HANDELSRAAD

(Ir. C. J. van den Bergh)

CONFIDENTIAL

CONFIDENTIAL
RECEIVED
JAN 10 1964
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C.



CEBECO HANDELSRAAD

P.O. Box 182, 3000 AD Rotterdam, The Netherlands Telephone +31 10-4544911 Telex 21398 cbco nl Fax +31 10-4113889
Bank: Rabobank Nederland, Account number 30.00.00.065 Giro bank account Rabobank 5658 stating 30.00.00.065
Address: Blaak 31, 3011 GA Rotterdam

Registered No. 54.571 Rotterdam

- BY AIRMAIL
U.S. Department of Agriculture
Plant Variety Rights Office
PGGI Building 001, room 335, Barc-West
BELTSVILLE
Maryland 20705
- U.S.A.

Dept:
WVDK/tg

Direct dial number: ROTTERDAM,
4544 504 September 22, 1989

Dear Sir/Madam:

You may already know that the Plant Breeding and Seeds Departments of Cebeco-Handelsraad have integrated into the new company CEBECO ZADEN B.V.

Therefore we kindly request you to transfer all varieties, for which an application has been made or which have been entered in the name of Cebeco-Handelsraad, to the name of CEBECO ZADEN B.V.

For the sake of clarity we give you once more the full address:

CEBECO ZADEN B.V.
P.O. Box 182
3000 AD Rotterdam
the Netherlands.

Under this cover you will find a list in which we mention all varieties involved according to the latest data that we have. We shall be pleased to receive your confirmation of transfer at your earliest convenience. Any possible invoice for charges due can be sent to Cebeco Zaden BV.

Yours faithfully,

CEBECO-HANDELSRAAD
Transferrer

Rotterdam,

CEBECO ZADEN B.V.
Transferee

Rotterdam,

Nationale coöperatieve ~~aan~~ en verkoop-
vereniging voor land- en tuinbouw b.a.
CEBECO-HANDELSRAAD
.....

Enclosure

CEBECO ZADEN B.V.
Postbus 182 - 3000 AD Rotterdam

Varieties of Cebeco Zaden B.V. in the USA

with PVP				
species	variety	name	date of grant	no. grant
Red fescue	Center	Center	88-01-15	8700077
Spring barley	✓ Bellona	Bellona	85-07-26	8300085
	Apex	Apex	85-07-26	8300084
	Efron	Efron	85-10-31	8500012
Perennial ryegrass	Elka	Elka	82-02-18	8100018
White pea	Miranda	Miranda	82-10-28	8100054
	Belinda	Belinda	86-03-31	8500013
Blue pea	Ricardo	Ricardo	85-08-30	8500014
	Maxi	Maxi	83-03-24	8000016
	Othello	Othello	86-03-31	8500015
application made				
Perennial ryegrass	EG 138	Surprise	88-12-19	8900062
Red fescue	Frc 137	Capitol	88-12-19	8900061
	CRU 499	Cindy		
	Frr 130	Claudia		
Kentucky bluegrass	Pp 112	Ampellia		
White pea	1415	Impala	89-1-26	8900081
	1416	Renata	89-04-04	8900145
Blue pea	Solara	Solara	88-01-29	8800056

